

ABSTRACT

An easy-to-use and inexpensive memory device is provided while maintaining product specifications and productivity even when a memory is formed on the same substrate as other functional circuits. The memory device of the invention includes a memory cell formed on an insulating surface. The memory cell includes a semiconductor film having two impurity regions, a gate electrode, and two wirings connected to the respective impurity regions. The two wirings are insulated from each other by applying a voltage between the gate electrode and at least one of the two wirings to alter the state of the semiconductor film.